



Indonesia's Gas Transportation and Distribution Infrastructure The Perspective of PGN

Grand Melia Jakarta

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Introduction

- PT Perusahaan Gas Negara (Persero) Tbk (PGN) is an Indonesian SOE in natural gas transmission and distribution business. Established in 1965.



43.03%
Public



56.96%
Government of
Republic Indonesia



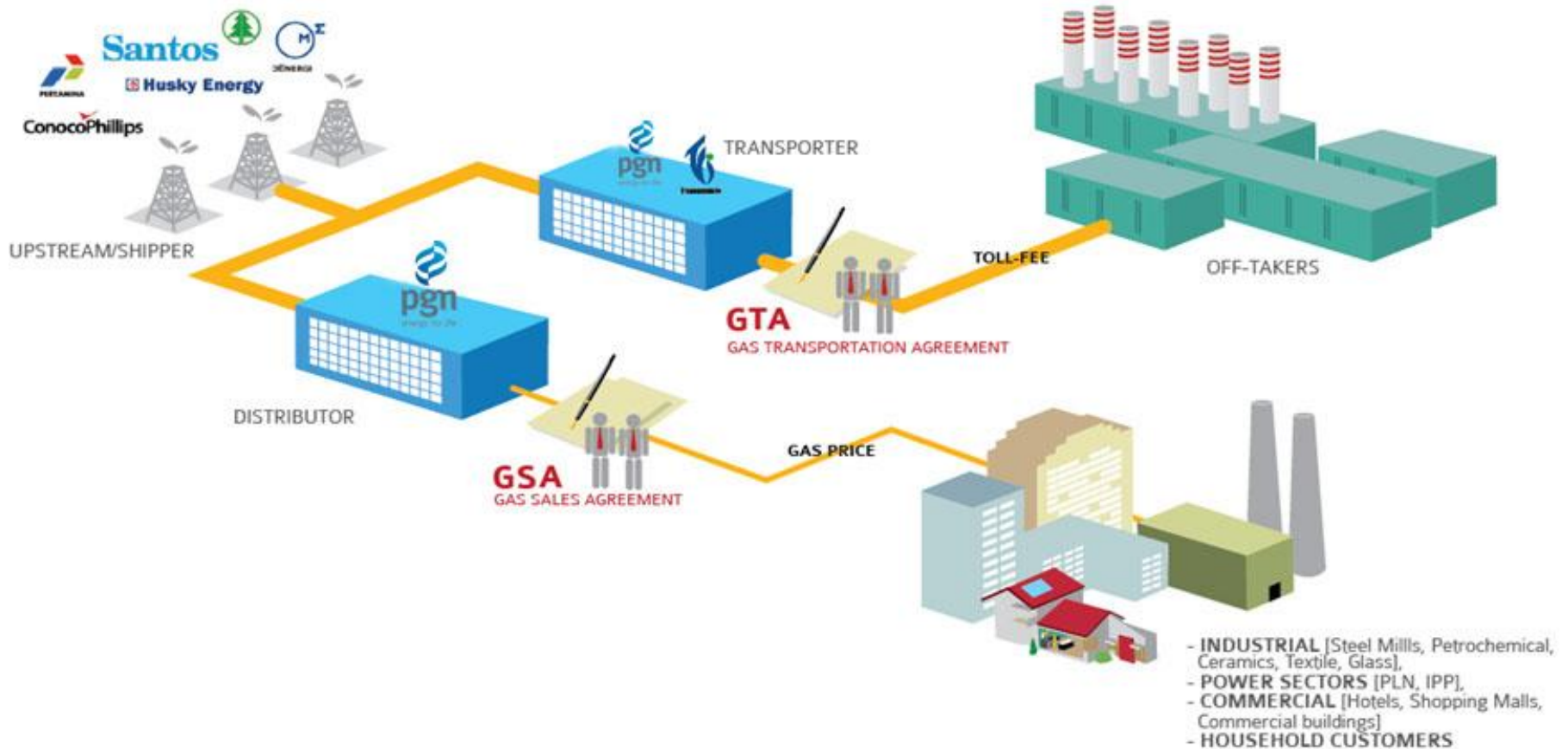
*) Total : 24,241,508,196 shares
Public Share includes 1,850,000 shares of Treasury Stock

- PGN operates and owns more than 5900 Km pipelines, for gas transmission and distribution.
- Distribution areas are including northern part of Sumatera, Batam, South Sumatera, West and East Java island.

PGN is one of the key players in providing natural gas for **Indonesia Gas Market**

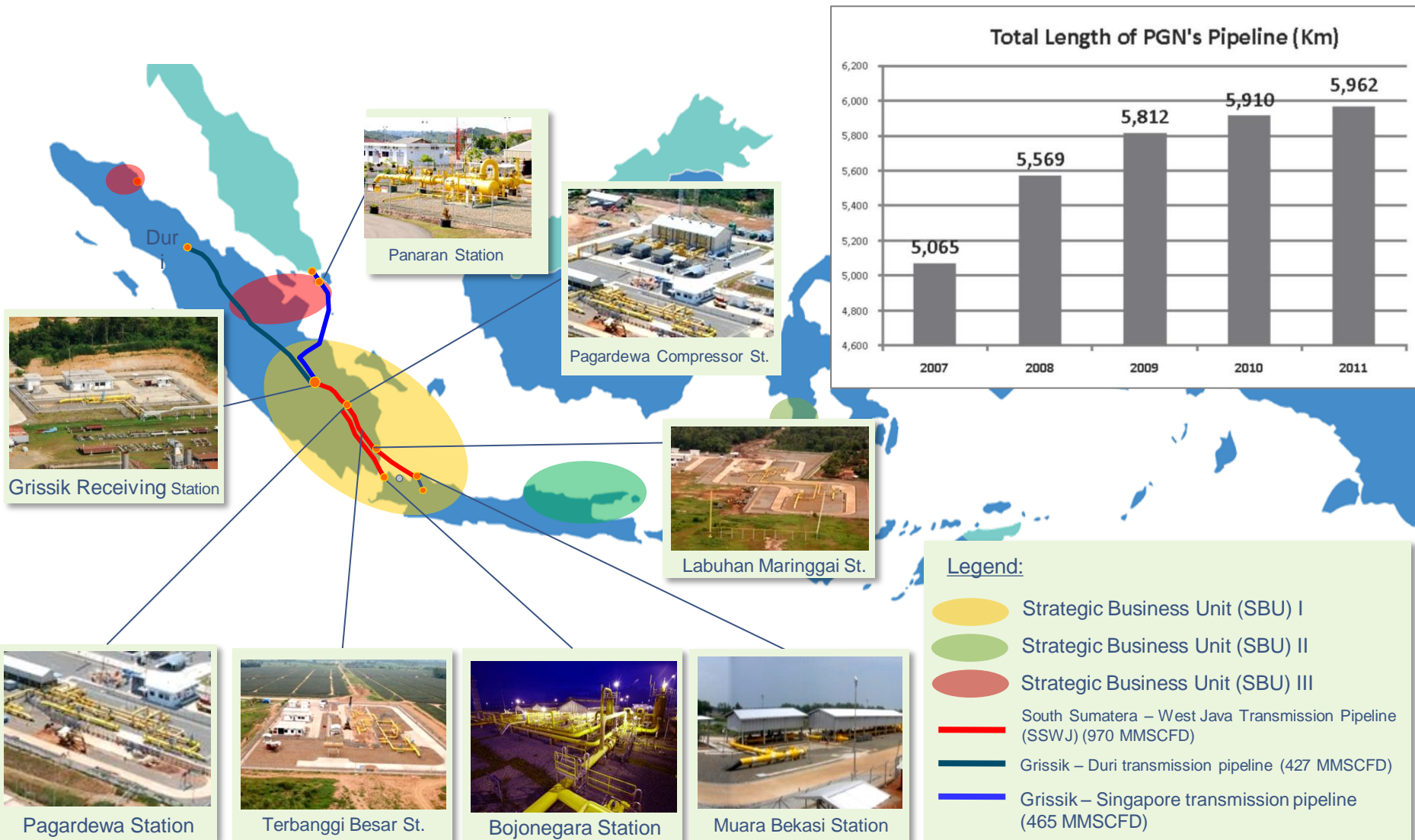
Introduction

PGN as Transporter and Distributor of Natural Gas



Introduction

PGN Infrastructures & Customers



Introduction

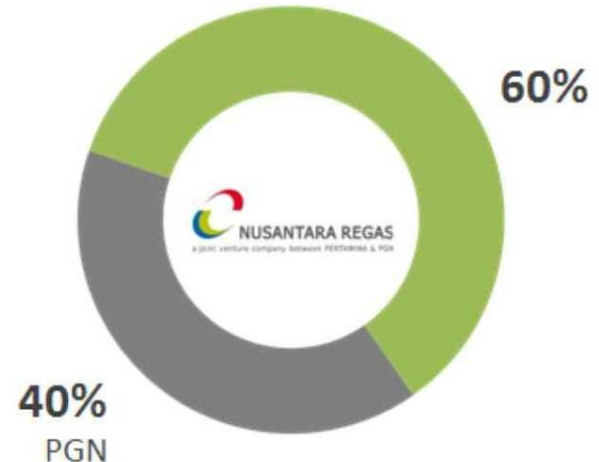
PGN Subsidiaries & Affiliates



40%

Transasia
Pipeline Company

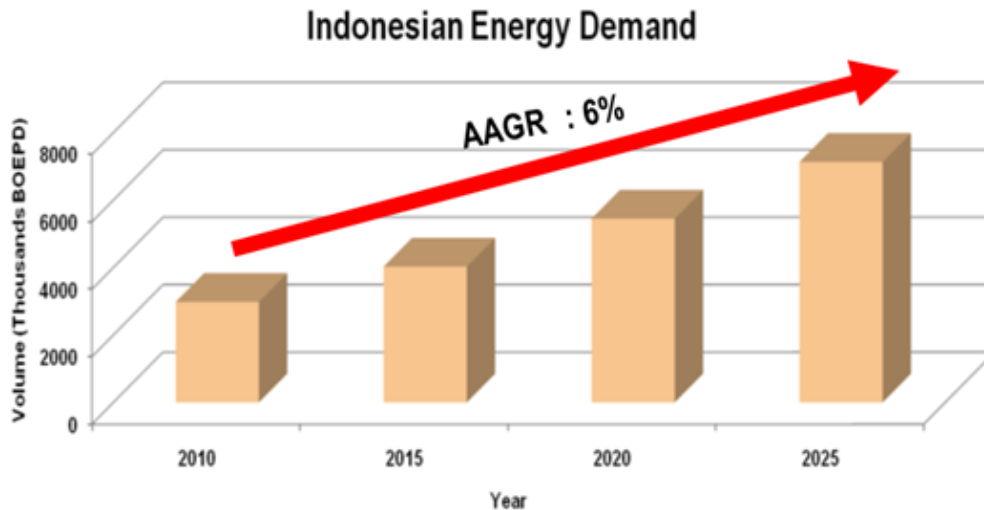
- Petronas International Corporation Ltd. (35%)
- Conoco Indonesia Holding Ltd. (35%)
- SPC Indo-Pipeline Co. Ltd. (15%)
- Talisman Transgasindo Ltd. (15%)



40%
PGN

Indonesian Gas Market

Rapid Indonesia Energy Demand Growth



The rapid growth of natural gas demand due to:

No Subsidy of Fuel for the Industries

Subsidies for industries revoked in 2005

Pricing and Efficiencies

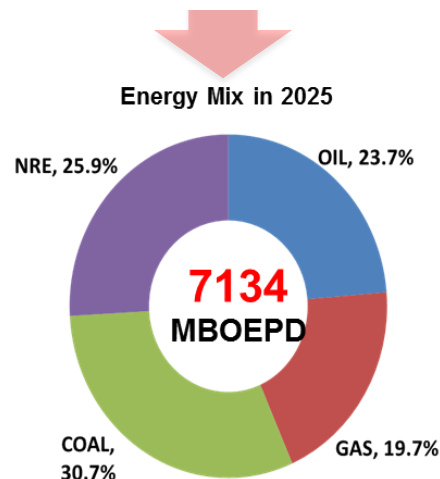
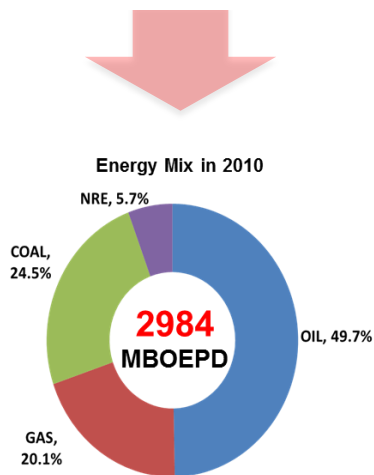
Significant price and efficiencies benefit by converting to natural gas, as well as environmental concerns

Conversion of Power Plants

Pent-up demand from the conversion of existing dual fired power plants pending availability of gas

Demand from the industries

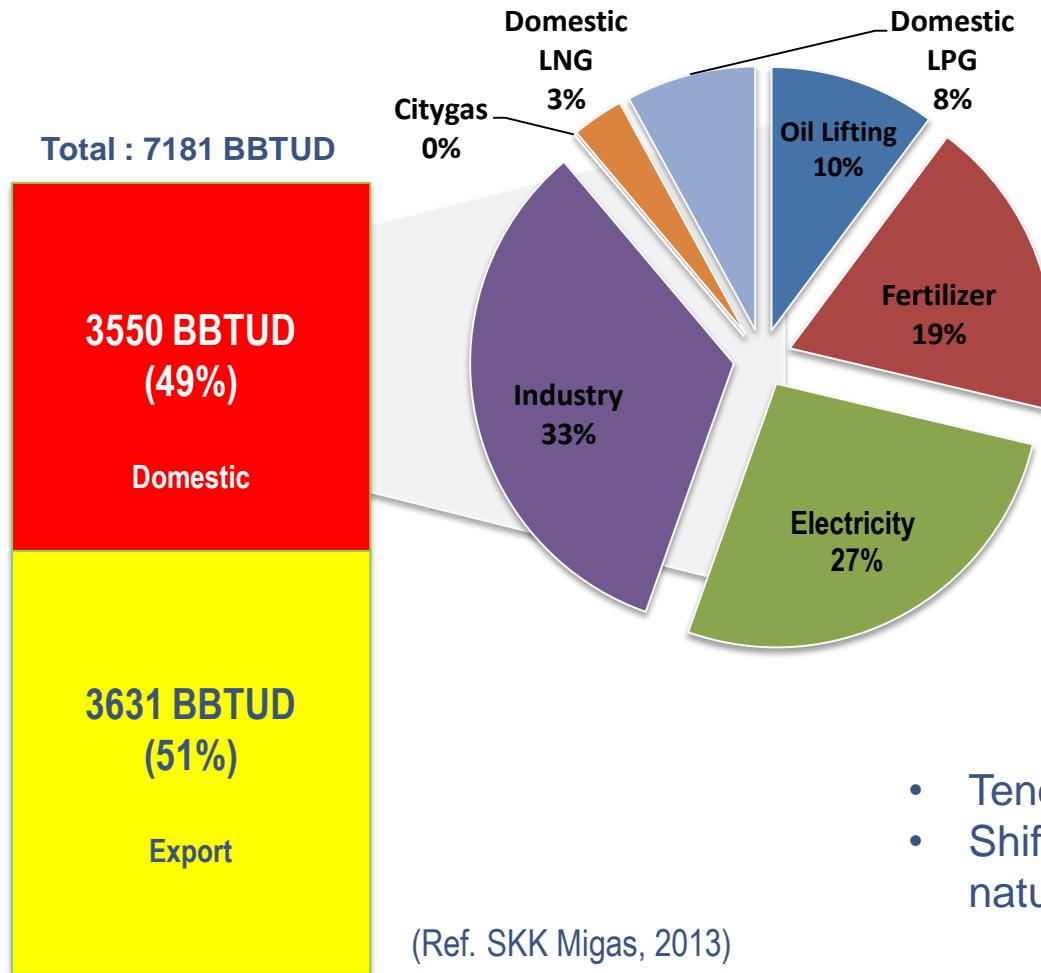
Require natural gas to compete in the era of Free Trade Agreement



(Ref: SKK Migas, 2013)

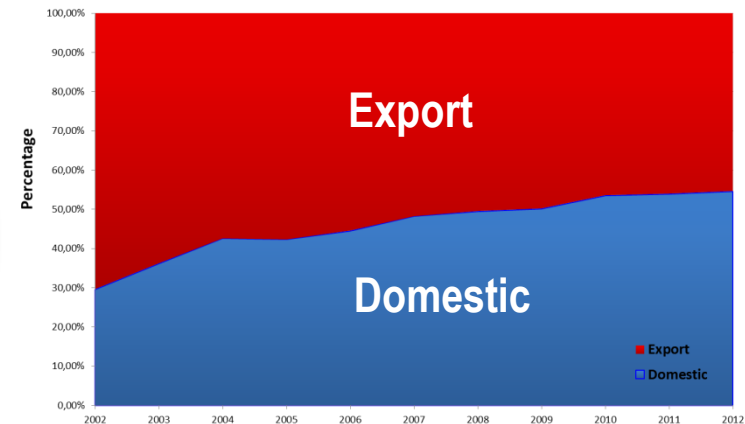
Indonesian Gas Market

Indonesia Natural Gas Allocation - 2012



(Ref. SKK Migas, 2013)

Indonesia Gas Contract 2002 - 2012



- Tendency to increase domestic utilization
- Shifting Paradigm in managing Indonesia natural Gas

Indonesian Gas Market

Infrastructure Development Challenges

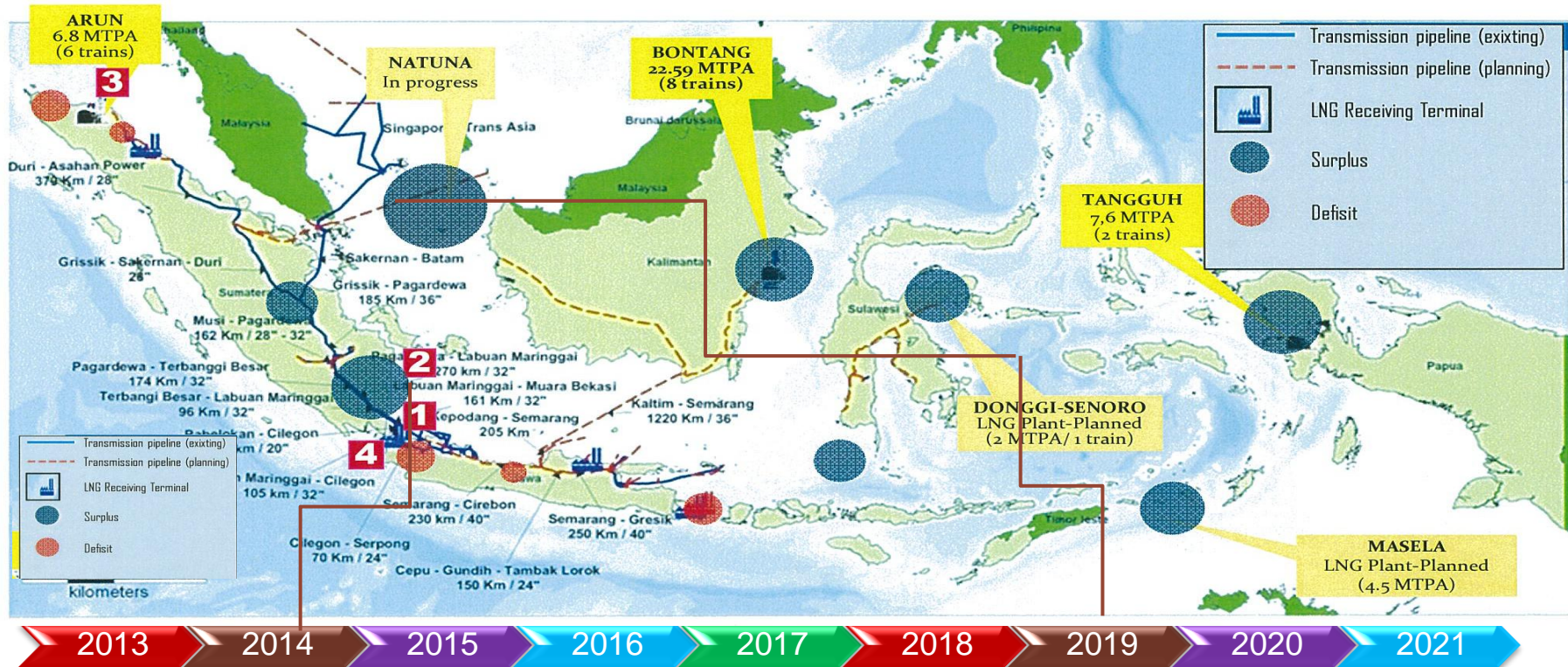
Infrastructure Gap to Increase Domestic Utilization



Source : Ministry of Energy & Mineral Resources Decree No. 2700.K/11/MEM/2012

Indonesian Gas Market

Infrastructure Development Challenges

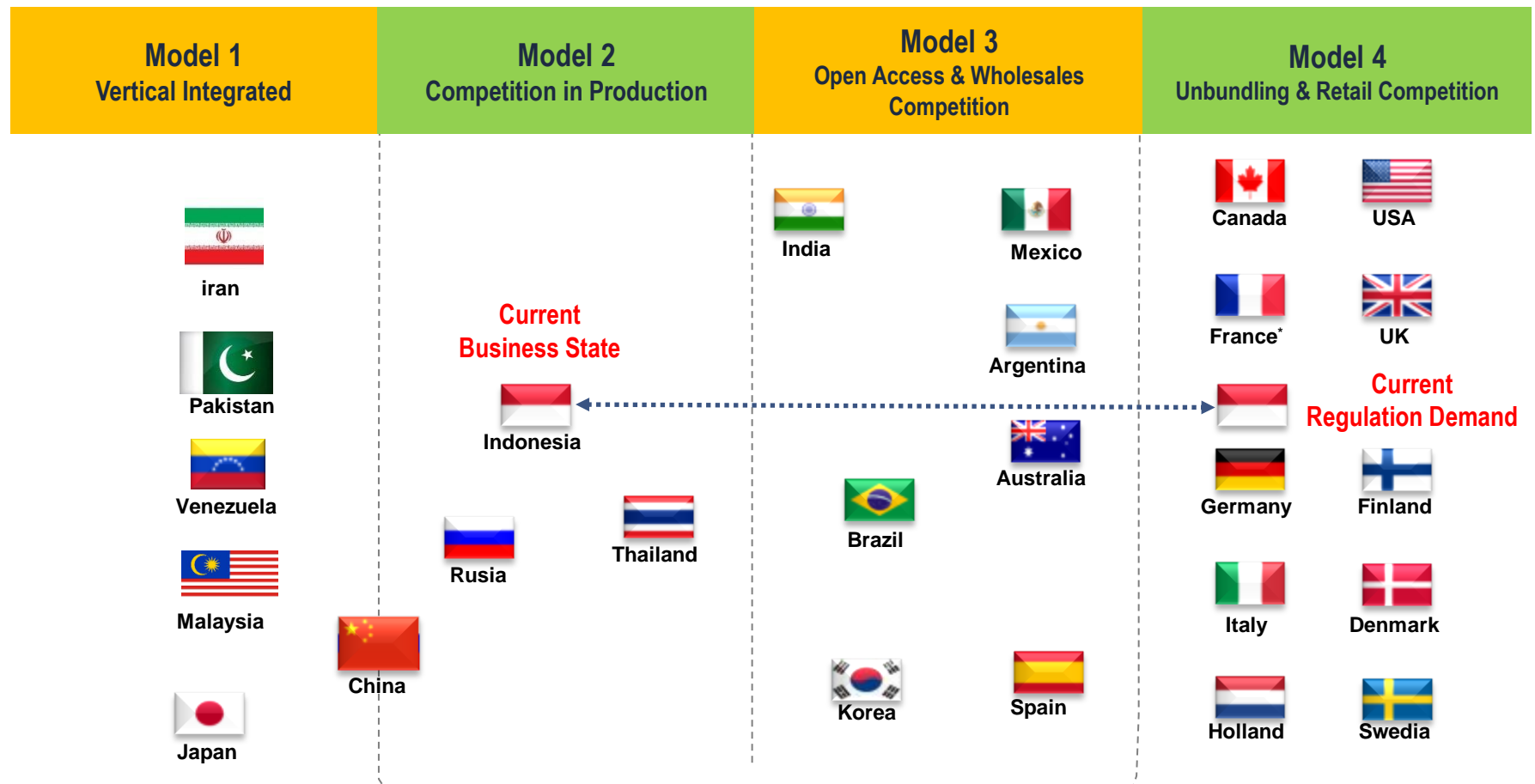


Courtesy: MEMR

- Geographical challenges
- Time synchronization challenges
- Pricing Gap between domestic and export challenges

Indonesian Gas Market

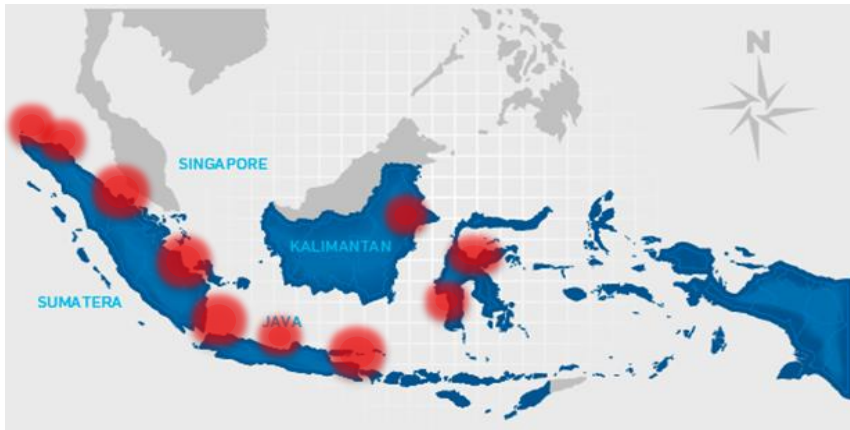
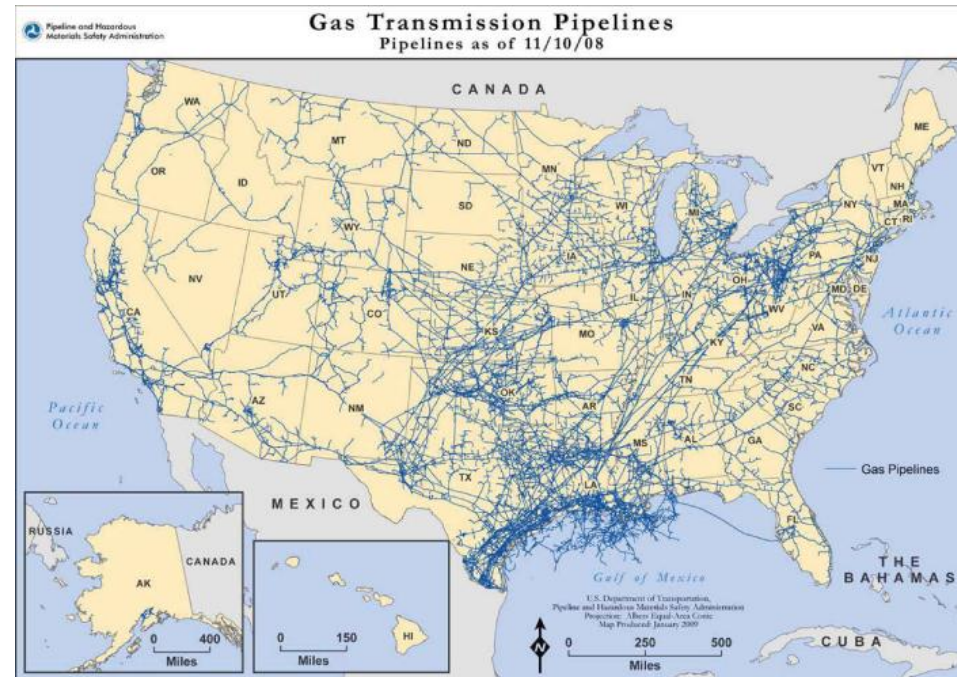
Indonesia Natural Gas Business Structure



Ref: The emergence in the natural gas industries (Juris, 1998)
AT Kearney (2009)

Lesson Learnt From US Gas Business

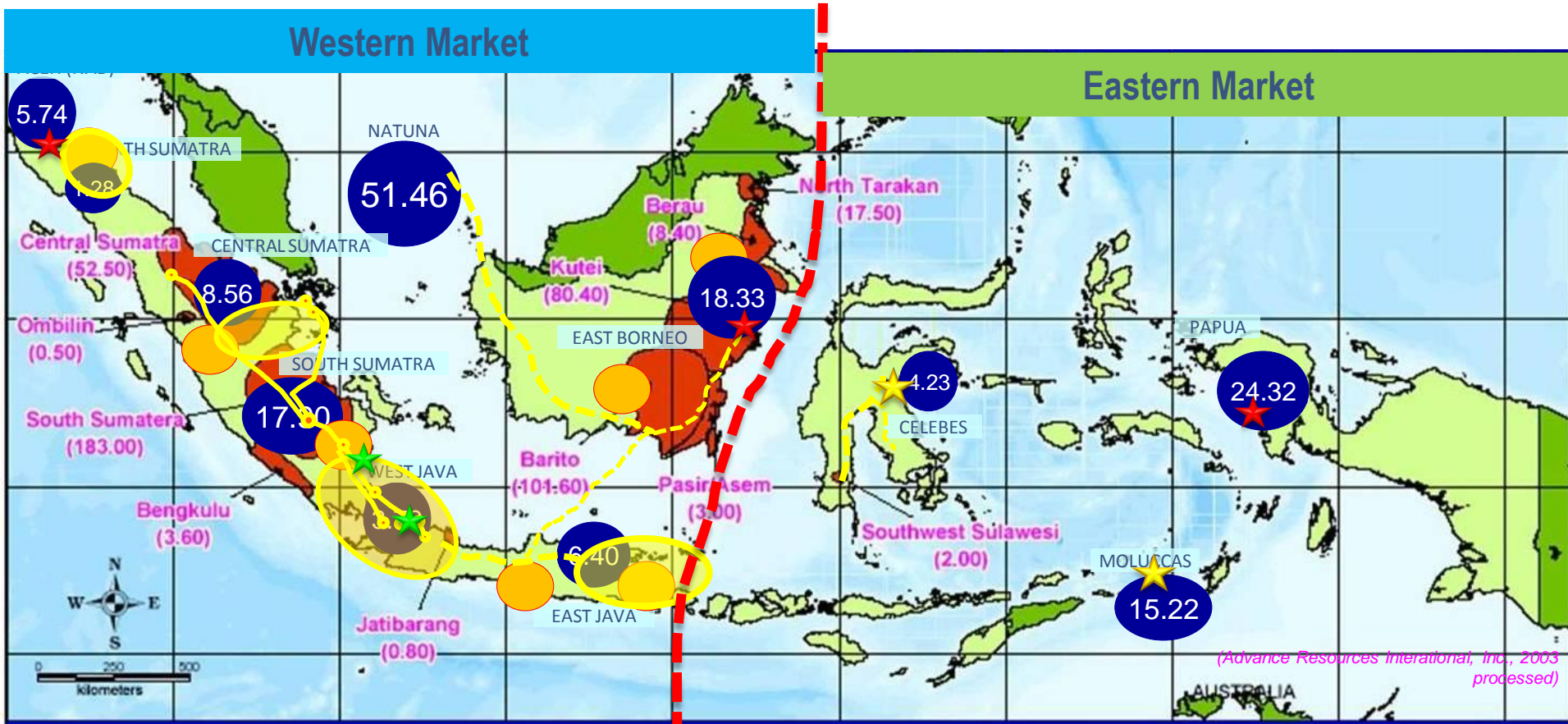
- US has an integrated gas infrastructure
- Infrastructure has integrated markets and form single national market
- Pricing through common references (Henry Hub)
- Onshore / On land geographical challenges



- Indonesia has a discrete gas market
- No single national market
- Infrastructure was developed based on 'B to B' scheme
- Onshore and large Offshore geographical challenges

Lesson Learnt From US Gas Business

Creating Single Indonesia Gas Market (Virtual of Physical Integration)



(Advance Resources International, Inc., 2003 processed)

● Gas Reserves (As of December 31st 2010)	= 334.5 TSCF	● CBM Reserves = 453.30 TCF	● Shale Gas Potential
PROVEN	= 104.71 TSCF	★ LNG RT PGN (existing & Future)	
POTENTIAL	= 48.18 TSCF	★ Future LNG Plant	
TOTAL (As of January 1st, 2011)	= 152.89 TSCF	★ Existing LNG Plant	

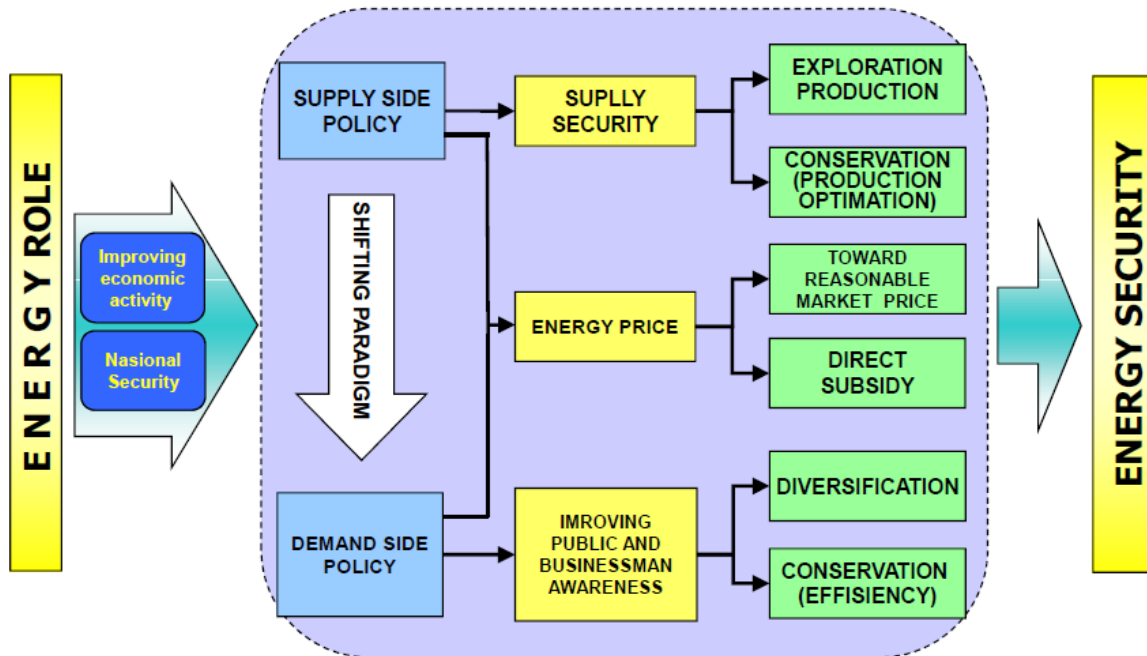
- Eastern part: LNG Vessel Transportation Mode Integration
- Western part: Pipeline system Integration

Lesson Learnt From US Gas Business

Indonesia Energy Security



NATIONAL ENERGY POLICY



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US Energy Security definition is No Import and Self sustaining country

Indonesia

- Fulfillment of domestic demand
- Control the export

Conclusion

- a. PGN has been proven in Indonesia as a gas company successfully developing and integrating gas infrastructure and gas market in many parts in the western Indonesia.
- b. Indonesia is in the state of rapid development and thus requiring natural gas as its major role.
- c. The challenge is providing the adequate infrastructure to increase the domestic gas utilization;
 - Gap in Infrastructure availability;
 - Complicated gas business transformation.
- d. The challenges in infrastructure development:
 - Geographical challenges
 - Synchronization between Production Planning and Market Readiness



Thank you